Name: _

Period:_____

1) A cone-shaped water cup has a diameter of 20 cm and an altitude of 4 cm. What is the volume of water that will fill the cup to HALF of its capacity?

$$\frac{1}{3} \frac{(\pi)(10)^{(4)}}{2} = 66.6\pi \text{ cm}^3 \text{ or } 209.4 \text{ cm}^3$$

2) The ornament below is composed of two congruent square pyramids. Each square pyramid has base side lengths of 6 inches and a height of 4 inches.

$$\frac{1}{3}(6)(6)(4)(a) = 96 \text{ in }^{3}$$

3) Find the volume of the shape below:



4) A sphere has a radius r = 7 inches. What is its approximate volume?

5) Calculate the volume of a square-based pyramid with an altitude height of 5 ft and base edges of 11 ft.

6) Calculate the volume of the cylinder:

